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Modified diene polymer rubber production - by polymerising conjugated diene, optionally with aromatic polyvinyl compound and then reacting with organo-polysiloxane having active groups

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Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 9110904	A	19970428	JP 95271467	A	19951019	199727 B
JP 3711598	B2	20051102	JP 95271467	A	19951019	200572

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Patent Details:

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JP 9110904	A		6	C08C-019/25	
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Abstract (Basic): JP 9110904 A

Modified diene polymer rubber is prepared by first polymerising a conjugated diene monomer alone or with aromatic vinyl monomer in a hydrocarbon solvent, using an alkali metal-based polymerisation initiator to obtain an active conjugated diene polymer rubber having an alkali metal end, and then reacting with an organosiloxane compound containing at least one functional group, such as epoxy, alkoxy, carbonyl, vinyl, Cl, Br and I. Organo-siloxane compound is of formula (I) $X7-[SiO(X1)(X2)]m-[SiO(X3)(X4)]n-SiX5X6X8$ (I), where $X1-X8 =$ alkoxy, vinyl, hydrocarbon group containing at least one of Cl, Br, I, epoxy group containing hydrocarbon group, H, alkyl or phenyl; $m, n =$ 0-100, but not simultaneously zero.

USE - Used in car tyre.

ADVANTAGE - Product gives a car tyre with low rolling resistance and high wet skid resistance, energy saving and braking ability on wet road surface.

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Title Terms: MODIFIED; DIENE; POLYMER; RUBBER; PRODUCE; POLYMERISE;
CONJUGATE; DIENE; OPTION; AROMATIC; POLYVINYL; COMPOUND; REACT;
ORGANO;

POLYSILOXANE; ACTIVE; GROUP

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